InnoVfoam B.V.
Waste Bunker Protection

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The wastebunker of an incineration plant always presents a certain fire risk. Combustible refuse near the bottom, heated up under pressure, or the coming into conflict of various sorts of refuse, can easily result in a fire. This danger is particularly high when a crane lifts refuse out of a wastebunker and brings it into contact with oxygen. To prevent, to the maximum extent, the damages caused by fire and smoke, a fast and effective fire fighting setup is called for, the most suitable of which are a remote-controlled foam/water canons (Firemonitors). Here, the fire extinguishing effect is being fortified by the wetting action of the added foam.

**REMOTE-CONTROLLED FOAM/WATER MONITORS**

Remote-controlled foam/water monitors equipped with full/spray jets, and commanding complete horizontal and vertical mobility ranges, can reach every point inside a wastebunker with ejected water or foam. In the spray mode, the jets eject a chilling mist. The size and shape of the wastebunker indicates the number and operation spot of the Firemonitors in order to cover the entire area.

**OPERATION OF THE FIREMONITORS**

Remote-controlled foam/water monitors are being principally operated from a control unit located in the cabin of the crane. In addition, a portable control panel can be employed, connected by either cable or wireless transmission, in order to operate the Firemonitors from various positions. In case of a cable network, a self-standing net with connection boxes placed at various suitable locations must be available to insure reliable data transmission at all times. Another possibility is to let the monitors be controlled by an automatic SPS system combined with a heat sensing camera.
DUST PROTECTION HOUSING

Since dust settling on electrical contacts and motors, as well as on other moving parts, impairs the functioning of the system, and with that its reliability, storage of the foam/water cannons, when not in use, is foreseen in dust protection housings. These housings open upon action request a door whereupon the cannons roll out automatically. After use, the cannons put themselves back into their rest configurations, roll back into the housings and automatically close the doors. All side panels of the housings are removable to facilitate repair and maintenance activities.
PHOTOS WASTE BUNKER PROTECTION EVIKON LAAR - 2008

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PHOTOS WASTE BUNKER PROTECTION REC HARLINGEN - 2011

[Images of waste bunker protection equipment and operators]
TECHNICAL SPECIFICATIONS

Monitor capacity: Up to 3.000 LPM
Nominal pressure: 16 bar
Maximum operation pressure: 12 bar
Throw length: 55 m (1.600 LPM/7 bar)
Spray angle of the jet: 120
Rotation: +/- 90
Elevation: -80º/+80º
Motor Voltage: 24VDC/230VAC/400VAC
Motor Wattage: 0,36 KW
Roll out distance: 500 mm
Material Fire monitor: Stainless Steel 1.4404 (316)
Material housing: Carbonsteel
Coating: Epoxy coating RAL 3000
PLC oscillation: Optional
Emergency hand operation: Handwheels

DRAWINGS